

CLAIMS

1. A seal device with a seal body and an attachment device for the captive attachment of the seal body to an object to be sealed,  
5 wherein one end of the attachment device is connected in a single piece with the seal body while on its other end it comprises a joining device for non-positive joining to a connection device that is provided on the seal body,  
characterized in that  
10 the seal body (21, 63, 73, 79, 94) comprises a data carrier that comprises a data transmission device (32, 40, 69, 82, 90), which data carrier is designed as a switching circuit (34, 57, 64, 74, 80, 88), wherein the switching circuit comprises an external circuit bridge (25, 71, 78, 84, 93) which for the purpose of connecting  
15 two connection points (29, 30, 31, 65, 75, 83) of the switching circuit leads through the attachment device (22, 72, 77, 87, 95).
2. The seal device according to claim 1,  
characterized in that  
20 the switching circuit is an integrated circuit (34, 57, 64, 74, 80, 88), and the circuit bridge (25, 71, 78, 84, 93) is preferably a wire-shaped conductor.
3. The seal device according to claim 1 or 2,  
25 characterized in that  
the switching circuit (64) is connected to an energy supply device (68) that is integrated in the seal device (59), and the data transmission device is made from a data access contact arrangement (69) that is arranged on the outside of the seal body  
30 (63).
4. The seal device according to claim 1 or 2,

characterized in that

the switching circuit (34, 57, 64, 74, 80, 88) comprises an antenna device (32, 40, 82, 90) that is arranged in the seal device (33, 60, 61, 62), which antenna device (32, 40, 82, 90) is used both as a data transmission device and as a connection to an external energy supply device.

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5. The seal device according to claim 4,

characterized in that

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the circuit bridge (78) is connected in series with the antenna device (76).

6. The seal device according to claim 5,

characterized in that

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the circuit bridge (78) is formed from a section of the winding of the antenna device (76).

7. The seal device according to claim 4,

characterized in that

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the circuit bridge (84) is parallel connected to the antenna device (82).

8. The seal device according to claim 7,

characterized in that

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the circuit bridge (93) is connected in series with a second antenna device (91).

9. The seal device according to claim 8,

characterized in that

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the circuit bridge (93) is formed from a section of the winding of the second antenna device (91).

10. The seal device according to any one of the preceding claims,  
characterized in that  
the joining device (26) on the attachment device (22, 72, 77, 87,  
95) and the connection device (27) on the seal body (21, 63, 73,  
5 79, 94) form a contact device (28) designed as a snap-in  
connection device.
11. The seal device according to any one of the preceding claims,  
characterized in that  
10 the contact device is constructed as a non-separable connection.
12. The seal device according to claim 10,  
characterized in that  
the contact device (28, 70) is a one-time joining device.  
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13. The seal device according to claim 12,  
characterized in that  
the joining device and/or the connection device comprise(s) a  
deformation part.  
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14. The seal device according to any one of the preceding claims,  
characterized in that  
the attachment device (22) is constructed as a wire conductor.
- 25 15. The seal device according to any one of claims 1 to 13,  
characterized in that  
the attachment device (72, 77, 87, 95) is made from a single-piece  
extension of the seal body.
- 30 16. The seal device of claim 15,  
characterized in that  
the attachment device comprises a circuit bridge that is formed

from a conductive plastic.

17. The seal device according to any one of claims 14 to 16,  
characterized in that

5 in order to form the circuit bridge the attachment device comprises  
a multitude of electrically conductive fibers.